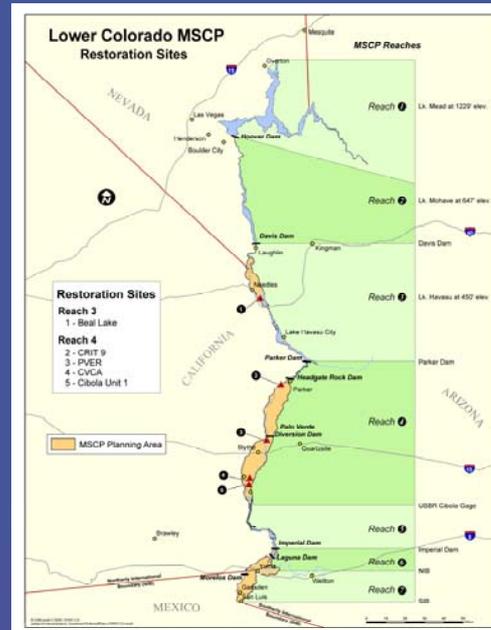




Lower Colorado River Multi-Species Conservation Program

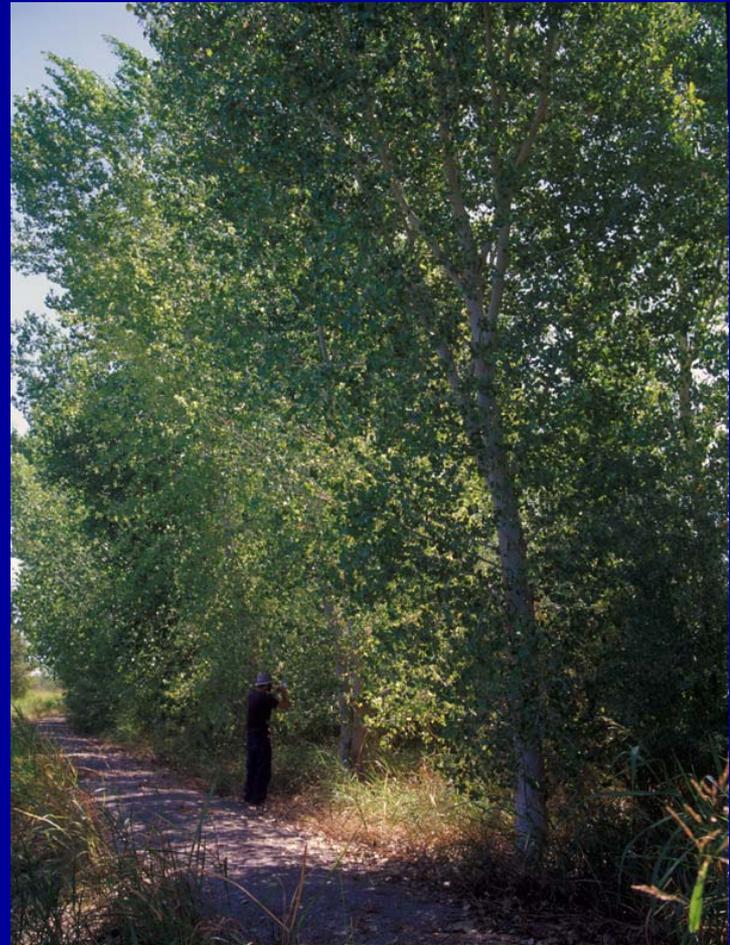
Balancing Resource Use and Conservation

Elf Owl Surveys in the LCR MSCP planning area



Conservation Measures

- Create 1784 ac of elf owl habitat (CW I, II and HM III) in reaches 3 to 5
- Install nest boxes until habitat has matured



Previous surveys

California Side

- Cardiff 1978 and 1979 (2 sites)
- Halterman et al. 1987 (10 sites)
- California Department of Fish and Game
1998, 1999, 2000

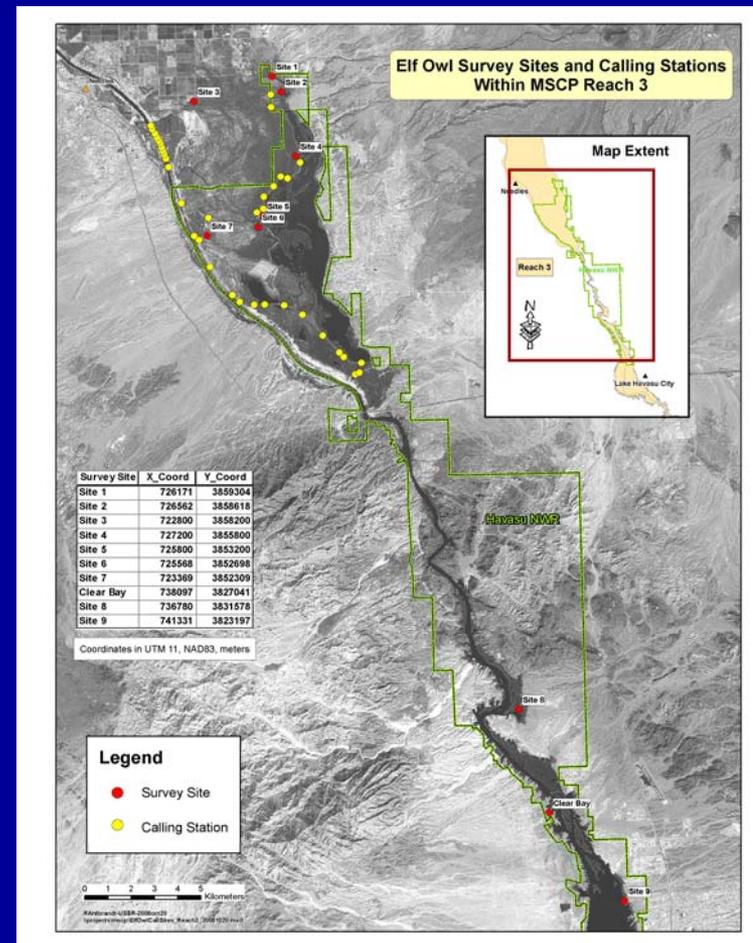
Arizona Side

- Bureau of Land Management 1982

2008 Surveys

GOAL-Current distribution of elf owls along the LCR

- 21 sites surveyed
- 2004 vegetation maps
- Historical locations
- Incidental sighting
- Mature restoration projects
- Site reconnaissance



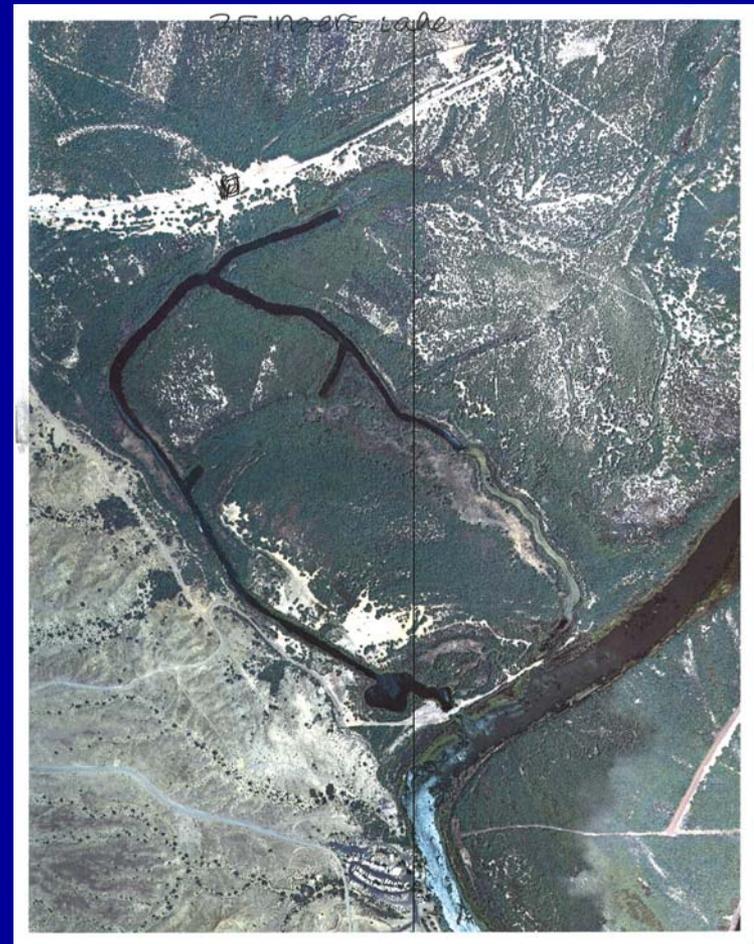
Historic Locations

Surveyed

- Desilt Wash
- Clear Bay
- Three Fingers Lake

Not surveyed

- Soto Ranch (Burned)
- Waterwheel Resort
- Hall Island
- Chemehuevi Wash (Burned)



Incidental sightings and Restoration Projects

Mckernan and Braden 1997-2002

- Ehrenberg
- Cibola 1&2 and Hart Mine Marsh
- Walker Lake

Mature Restoration Projects

- Bermuda Pasture (Havasu NWR)
- CRIT 8 and 9 'Ahakav Preserve

2004 vegetation maps

CW I, II and HM III habitat selected

- Havasu NWR-9 sites
- Cibola NWR (Walkers Lake area)
- Imperial NWR (Draper and Adobe Lake)

Habitat reconnaissance

- Small mature cottonwood/willow areas on Havasu NWR

Survey Methods

- Arizona Game and Fish Department recommended methods –Michael Ingraldi and Shawn Lowery
- Three surveys at each site 25 March to 31 May
- Call stations 150 m apart
- 2 minute listening, 4 X 30 sec elf owl call/ 90 sec listening, 2 minute listening
- 30 min after sunset to 1:00 AM

Results

- No elf owls detected

Owl species detected

- Great-horned owl
- Western screech-owl
- Barn owl
- Northern saw-whet owl
- Long-eared owl

Future Plans

FY09

- Survey same sites as in 2008

FY10

- **Detectability Study**

- Hardy and Morrison 2000 (temporal, lunar, weather, and biological)
- Boal and Bibles 2001 (conspecific and great horned owl calls)

- **BOR Study**

Population on Bill Williams

Feedback/Questions

Suggestions

- Detectability Study
- Locations
- Incidental sightings

